

10 | 533706

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number  
**WO 2004/055067 A1**

- (51) International Patent Classification<sup>7</sup>: **C08F 10/00**,  
4/602 Midland, MI 48642 (US). **TUINSTRA, Hendrik, E.**  
[US/US]; 5103 Foster Road, Midland, MI 48642 (US).
- (21) International Application Number:  
PCT/US2003/036483 (74) Agent: **DELINE, Douglas, N.**; The Dow Chemical Com-  
pany, Intellectual Property, P.O. Box 1967, Midland, MI  
48641-1967 (US).
- (22) International Filing Date:  
17 November 2003 (17.11.2003) (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ,  
DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK,  
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,  
MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK,  
SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, YU, ZA,  
ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/433,180 13 December 2002 (13.12.2002) US (84) Designated States (*regional*): ARIPO patent (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **DOW**  
**GLOBAL TECHNOLOGIES INC.** [US/US]; Washing-  
ton Street, 1790 Building, Midland, MI 48674 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **ROMER, Duane,**  
**R.** [US/US]; 4025 Lowell Court, Midland, MI 48642  
(US). **ROSEN, Robert, K.** [US/US]; 2639 Centenary  
Street, Houston, TX 77005 (US). **STEVENS, James, C.**  
[US/US]; 2026 Pecan Trail Drive, Richmond, TX 77469  
(US). **TIMMERS, Francis, J.** [US/US]; 4605 Lund Drive,
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*



WO 2004/055067 A1

(54) Title: OLEFIN POLYMERIZATION CATALYST COMPOSITION COMPRISING GROUP 13 AMIDE DERIVATIVES

(57) Abstract: Catalyst compositions that are highly tolerant of catalyst poisons for use in addition polymerizations comprising a catalytic derivative of a Group 4 metal complex, a cocatalyst, and a Group 13 metal amide compound.